

Title (en)

A method of reassigning objects to processing units

Title (de)

Verfahren zur Neuverteilung von Objekten an Recheneinheiten

Title (fr)

Méthode pour redistribuer des objets à des unités de traitement

Publication

EP 1524599 A1 20050420 (EN)

Application

EP 03023374 A 20031016

Priority

EP 03023374 A 20031016

Abstract (en)

The present invention relates to a method of assigning objects to processing units of a cluster of processing units, each of the processing units having a storage capacity, the method comprising: a) providing an ordered sequence of objects, b) providing an initial distribution of the objects to the processing units, c) processing the objects in the order of the sequence to improve the smoothness of the initial distribution. <IMAGE>

IPC 1-7

G06F 9/50

IPC 8 full level

G06F 9/46 (2006.01); **G06F 9/50** (2006.01)

CPC (source: EP US)

G06F 9/5066 (2013.01 - EP US); **G06F 9/5083** (2013.01 - EP US)

Citation (search report)

- [A] US 2002046316 A1 20020418 - BOROWSKY ELIZABETH [US], et al
- [XA] AGGARWAL G; MOTWANI R; ZHU A: "The load rebalancing problem", PROCEEDINGS OF THE FIFTEENTH ANNUAL ACM SYMPOSIUM ON PARALLEL ALGORITHMS AND ARCHITECTURES, June 2003 (2003-06-01), USA, pages 258 - 265, XP002285345
- [XA] VERHOOSSEL J P C ET AL: "Incorporating Temporal Considerations during Assignment and Pre-run-time Scheduling of Objects and Processes", 10 July 1996, JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING, ACADEMIC PRESS, DULUTH, MN, US, PAGE(S) 13-31, ISSN: 0743-7315, XP004419164
- [A] FONLUPT C ET AL: "Data-parallel load balancing strategies", 1 October 1998, PARALLEL COMPUTING, ELSEVIER PUBLISHERS, AMSTERDAM, NL, PAGE(S) 1665-1684, ISSN: 0167-8191, XP004148116
- [A] LU E J -L ; OKUNBOR D I: "An efficient load balancing technique for parallel FMA in message passing environment", PROCEEDINGS OF THE EIGHTH SIAM CONFERENCE ON PARALLEL PROCESSING FOR SCIENTIFIC COMPUTING, March 1997 (1997-03-01), USA, pages 1 - 8, XP002285344, Retrieved from the Internet <URL:http://www.cyut.edu.tw/~jlu/research/parallel/nbody/siam97.ps>
- [A] COFFMAN E G; GAREY M R; JOHNSON D S: "APPROXIMATION ALGORITHMS FOR BIN PACKING: A SURVEY", APPROXIMATION ALGORITHMS FOR NP-HARD PROBLEMS, 1996, pages 1 - 53, XP002285343, Retrieved from the Internet <URL:http://www.ee.columbia.edu/~egc/webpapers/BPchapter.ps>

Cited by

US7752628B2; US7647592B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1524599 A1 20050420; **EP 1524599 B1 20080206**; AT E385590 T1 20080215; DE 60319003 D1 20080320; DE 60319003 T2 20090205; US 2005125799 A1 20050609; US 7647592 B2 20100112

DOCDB simple family (application)

EP 03023374 A 20031016; AT 03023374 T 20031016; DE 60319003 T 20031016; US 96460704 A 20041015